



Man-Portable, fully untethered MANPADS Simulator



JOINT MAN-PORTABLE AIR DEFENSE SYSTEM TRAINER

AN EW TRAINER FOR ENHANCING AIRCREW COMBAT PROFICIENCY.

The Leonardo DRS Joint Man-Portable Air Defense System (JMANPADS) Trainer is a field proven, man-portable, fully integrated lightweight Electronic Warfare (EW) trainer for enhancing rotary and fixed wing aircrew combat proficiency while countering today's lethal Infrared (IR) Man-Portable Air Defense Systems (MANPADS). **Easy to use with minimal maintenance or operator training required**, JMANPADS cost-effectively meets the unique operational training and After Action Review (AAR) requirements for unit-level aircrew survivability training. JMANPADS's Ultra-Violet (UV) threat signature technology has been **successfully demonstrated in multiple open-air field demonstrations and formal testing** against fixed and rotary wing aircraft equipped with a variety of missile warning systems including the AAR-47 (multiple variants) and the AAR-57 Common Missile Warning System (CMWS).

The JMANPADS Trainer includes a high-intensity programmable UV threat signature source, modular day/night capable sensors, a passive eye-safe Electro-Optic

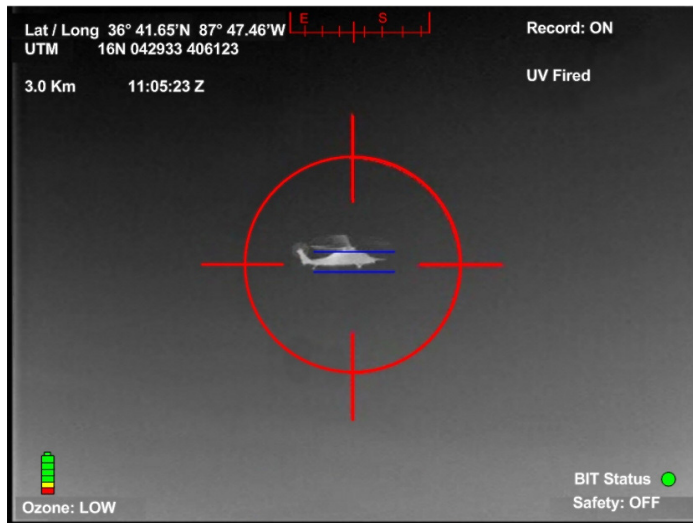
Range Finder (EORF), a digital video recording capability, an internal battery pack and easy to use operator controls and displays - all housed in a single untethered lightweight rugged assembly comparable in weight to common MANPADS systems such as the SA-7, SA-14, SA-16, and SA-18. The modular sensor packages and optional capabilities provide the ability to **tailor the system performance capabilities to the unique requirements of individual training ranges and scenarios** - both day and night.

A fully integrated PC-based AAR with annotated digital video (LAT/LONG, GPS Time, Firing Status) provides an affordable and easy-to-use method for debriefing aircrews on any PC. Training missions are recorded directly on the JMANPADS Trainer on an internal rugged/removable hard drive and can be transferred to external PCs either via a Local Area Network (LAN) or USB based drives. The Leonardo DRS JMANPADS Trainer rounds out the EW product line of realistic Radio Frequency (RF) and Electro-Optical (EO) aircrew survivability equipment trainers.

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HIGHLIGHTS

- Automatic UV profile selection minimizes operator intervention during engagement
- Demonstrated stimulation of AAR-47 and AAR-57 Missile Warning Systems (MWS)
- Demonstrated engagement ranges to 5 km and beyond
- Single integrated assembly
 - UV stimulator
 - Day or night sensor
 - Passive EORF
 - Data recording
 - 3-hour plus battery
 - PC-based controls & displays
- 24-hour mission capability using modular day and night sensor packages
- Fully untethered operation
- Easy to use operator controls simplify operator training and field operation by the soldier
- Pre-mission setup using a laptop



Integrated PC-based AAR

ATTRIBUTES

PARAMETER	DESCRIPTION
Weight	31 lbs. (14.06 kg)
Data recording capacity	24 hours plus
Data recording media	Removable hard drive
Operating system	Windows® based
Ozone monitoring	Hand-held ozone monitor (pre-mission setup)
Temperature (operating)	+32°F to +104°F (0°C to +40°C)
Available sensor packages	Low-light color camera, infrared camera
Open system architecture	No proprietary software required

OPERATIONAL CHARACTERISTICS

PARAMETER	DESCRIPTION
Target acquisition	Day/night to 3.11 miles (5 km) and beyond
Operator display	Rugged monocular with flexible mount
Location/time	
GPS LAT/LONG	With GPS time stamp
UTM, and MGRS coordinates	Overlaid on recorded video
UV threat signatures	32 programmable
UV source	Replaceable at the depot
Threat signature programming	Software supplied
Maintainability	Built-in-test
Setup and maintenance	Via laptop
Battery operational capacity	3 hours plus (typical operational scenarios)
Transport case	Designed for range sock and vibration
Range measurement	EORF
AAR	PC-based annotated mission video replay

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